

Project Progress Report

CLIENT: AEA/City of Akutan			PROJECT: Akutan Electrical Distribution Upgrade		DATE: September 15, 2010
PROJECT NO.: AEA-09-022 RQ3127			REPORT NO.: 2	REPORT PERIOD: 7/21/2010 through 8/31/2010	
DATE	PRIMARY TASK	AREA	PROGRESS		
7/21	Restaging	NA	Moved newly received materials to powerhouse staging area; completed boardwalk replacement around Xfmr 5; performed equipment maintenance; discussed potential changes w/AEA engineer.		
7/22	Trenching	B	Digging by equipment & hand from JBox B to area of Xfmr 8; primary cable and HDPE installed for 3-phase heading toward JBox C, single-phase to Xfmr 8 & single-phase intended for Xfmr 9; installed ditching tape and backfilled same area; ran single-phase primary cable from JBox B to Xfmr 6 (by streetlight 7-L3), and streetlight wire and ¾" HDPE from Xfmr 6 to streetlight 7-L3.		
7/23	Trenching	B	Completed digging & installing 3-phase primary cable & HDPE to JBox C; installed ditching tape, backfilled & seeded West side of VPSO Bldg; hand dug & installed single-phase line from Xfmr 9 to Xfmr 10 .		
7/24	Trenching	B	Completed backfilling & grooming from East end of VPSO Bldg to JBox C; completed hand-digging, installed primary cable, HDPE & ditching tape, backfilled & groomed to Xfmr 9, and from Xfmr 9 to Xfmr 10; laid ¾" HDPE from Xfmr to streetlight 9-L1, performed equipment maintenance.		
7/25	Pulling Wire	B	Staged materials & equipment below Hydro; pulled wire from JBox B to Xfmr 6; pulled wire & loaded into HDPE from Xfmr 9 to Xfmr 10; applied heat shrink end caps.		
7/26	Pulling Wire & Phase 3 Prep	B & C	Pulled wire from JBox B to Xfmr 8, JBox B to Xfmr 9, JBox C to Xfmr 13 (3 phase); pulled 3 runs HDPE & preloaded from JBox to Xfmr 13; cleared route of debris, trash, crab/shrimp pots & boardwalk from JBox C to new JBox F; completed rebuild of boardwalk in vicinity of Xfmrs 8, 9 & 10.		
7/27	Trenching & Boardwalk	C	Digging by hand from JBox C to Xfmr 11; pulled ¾" HDPE from Xfmr 11 to Streetlight 8-L2; removed boardwalk from JBox C to Xfmr 12; reported material shortages; discussed potential design changes with MCLLC; inventoried all remaining materials.		
7/28	Trenching	C	Completed hand-digging for ¾" HDPE from Xfmr 11 to Streetlight 8-L2; staged backhoe into position & began digging from JBox C to area of Xfmr 12; installed wire, HDPE & ditching tape and partially backfilled; pulled last of 3 runs of wire into HDPE from JBox C to new JBox F.		
7/29	Trenching & Boardwalk	C	Continued digging, installed HDPE w/primary wire & backfilled additional 15' toward Xfmr 12; began rebuilding boardwalk from JBox C toward Xfmr 12; completed hand digging & installing ¾" HDPE from Streetlight 11-L1 to Streetlight 12-L1.		
SPECIAL COMMENTS:					
7/21 Extra work done for City: redug 8' hole and assisted with backfilling for Seismic Pole.					
7/27 Heavy rock encountered while hand-digging in especially confined & narrow area; slow work requiring use of pick.					
7/28 Cut power service line & water line at Village Administrator's house. Power service line was spliced and returne to power; water line was repaired by plumber from Dutch Harbor, hired by City of Akutan. Worker stepped through rotted cover to existing energized pedestal.					
7/29 Work slowed by rain.					
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7/30	Trenching & Boardwalk	C	Completed hand digging and installing HDPE & primary wire beyond Xfmr 12 to new JBox F; partially installed single run of HDPE & primary wire from new JBox F to feed Xfmr 12; completed rebuilding boardwalk from JBox C to area of Xfmr 12.		
7/31	Pulling Wire	C	Pulled, cut & preloaded 3 runs of primary wire & HDPE from new JBox F to JBox D; pulled, cut & preloaded 1 run of primary wire & HDPE from JBox D to Xfmr 14.		
8/1	Evaluation & Replanning	C	Measured distances of wire and trenches at varying locations thruout project; studied creeks and planned best strategy for crossings; adjusted implementation schedule to accommodate material shortage; studied streetlight configuration with secondary pedestals given non-existence of Xfmr 7.		
8/2	Trenching & Boardwalk	C	Completed installation of single phase run from JBox F back to Xfmr 12; removed boardwalk & hand dug under utilities in area of Xfmr 12; partially rebuilt boardwalk in area of west end of school; hand dug, installed ¾" HDPE & backfilled from Streetlight 12-L2 back to secondary pedestal 12-1 and from Xfmr 9 to Streetlight 8-L3.		
8/3	Trenching & Boardwalk	C	Installed silt fence, dug approximately ½ the distance, installed preloaded HDPE & backfilled, in area between JBox F & JBox D including under 1 st culvert; completed rebuild of boardwalk between JBox F & Xfmr 12.		
8/4	Trenching & Boardwalk	C	Installed second silt fence between JBox F & Xfmr 15 at Hydro; dug, installed preloaded HDPE & backfilled further along this route including under 2nd culvert; began installation of ¾" HDPE to Streetlight 14-L2; removed boardwalk, hand dug, installed ¾" HDPE, backfilled & replaced boardwalk from Secondary pedestal 10-1 to Streetlights 10-L2 & 10-L1; performed equipment maintenance & repair.		
8/5	Trenching & Boardwalk	C	Removed boardwalk, mostly hand dug trench, installed wire & HDPE, backfilled and rebuilt boardwalk to finish 3 phase run from JBox F to JBox D; removed boardwalk, mostly hand dug trench, installed wire & HDPE & backfilled for single phase run from JBox F to Xfmr 14; finished installation of ¾" HDPE from Xfmr 14 to Streetlight 14-L2.		
8/6	Trenching & Boardwalk	C	Reseeded area from JBox F to Xfmr 14; hand dug, installed ¾" HDPE & backfilled from Streetlight 14-L2 to Streetlight 16-L4; removed boardwalk from JBox F to Xfmr 13; hand dug trench, backfilled & replaced boardwalk for area that crosses into playground.		
8/7	Trenching & Boardwalk	C	Dug trench, installed ¾" HDPE, backfilled and reseeded from secondary pedestal 6-3 to Streetlight 7-L2; hand dug pad area to place Xfmr 13; Ran HDPE from JBox f to Xfmr 13.		
SPECIAL COMMENTS:					
7/30 Slow, tedious work due to confined spaces, much hand digging & much rain.					
8/1 Installation of HDPE & primary wire across creek delayed due to rain; unexpected shortage of materials required reevaluation of schedule.					
8/2 Creek crossing delayed again due to rain.					
8/5 Almost exclusive hand digging required due to steep slope, heavy rock, 8" heavy walled water mains & existing primary wire encountered 12" below grade.					
8/6 Slow, careful digging due to high number of existing utility & sewer lines.					
8/7 Treacherous hand digging due to charged water lines, sewer lines, power & cable TV lines buried in area.					
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8/8	Vault Prep	C	Began work to install vault for Xfmr 13: installed ground rod, installed feeder lines to school from Xfmr 13 using 3" liquid tight; built up compaction.		
8/9	Xfmr Installation	C	Finished vault installation for Xfmr 13; backfilled & compacted then installed 3 phase lines from JBox F into HDPE to Xfmr 13; mounted Xfmr 13 onto vault, bolted down & grounded; trenched, installed 3/4" HDPE & backfilled from Streetlight 7-L1 to Streetlight 7-1-L1 & from Streetlight 8-L2 to Streetlight 8-2-L1.		
8/10	Phase 4 Prep	D	Hand dug trench, installed 3/4" HDPE, backfilled & rebuilt boardwalk from Streetlight 7-1-L1 to pedestal 7-1; staged reel of HDPE to JBox D area; premeasured & pulled 3 runs of HDPE from JBox D to JBox E; preloaded 2 runs of the 3; pulled 3 runs of HDPE from JBox D to Xfmr 15.		
8/11	Xfmr Installation	A	Installed vault & set Xfmr 1 on vault; installed 3" liquid tight with new 3 phase feeder line from Powerhouse to Xfmr 1; removed boardwalk & homeowner's front deck, hand dug trench, installed 3/4" HDPE w/wire & partially backfilled from Streetlight 7-2-L2 to pedestal 7; hauled trash.		
8/12	Boardwalk & JBox Install	A	Finished backfill & replaced sod from Streetlight 7-2-L2 to pedestal 7; rebuilt boardwalk & homeowner's front deck in same area; completed rebuilding of boardwalk in two other areas; bolted down Xfmr 1 @ Powerhouse; placed & painted 2 large rocks as protection for Xfmr 1; installed JBox A with compaction.		
8/13	Dry Pack Xfmr	A	Reworked Dry Pack Xfmr at Xfmr 1; reworked & ran regular service drop from Xfmr 2; hauled trash, removed brush from area of Xfmr 3 to prepare for switch; installed JBox B including compaction.		
8/14	None	NA	Stand-by day due to excessive rain and standing water preventing setting of vaults and JBoxes and high tide and hold back tide preventing tracking of excavator along beach.		
8/15	JBox Installation	B & C	Installed JBox C and completed grooming of area; installed JBox F and completed grooming of area.		
8/16	Boardwalk & Fencing	C & D	Replaced chain link fencing previously removed at school; replaced boardwalk between JBox F & Xfmr 13; dug & prepped for removal of existing JBox D; removed existing JBox E; hauled trash.		
8/17	JBox & Xfmr Vault Prep	C & D	Replaced old JBox @ Xfmr 12 with temporary JBox to serve until end of project; removed Xfmr 12 vault, made ready for change-over to new system & reinstalled; preloaded remaining 1 run of 3 phases from JBox D to JBox E.		
SPECIAL COMMENTS: 8/11 Used last of primary wire. 8/14 Weather delay due to rain & standing water. 8/17 Received additional primary wire.					
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8/18	Trenching	C & D	Harvested existing JBox C for permanent use elsewhere in new system & installed temporary JBox in place of it; mostly hand dug trench from JBox D to Xfmr 15; installed 6 runs HDPE from JBox D to area of Xfmr 15 (3 to feed Xfmr 15 & 3 preloaded which will continue on to JBox E; backfilled trench.		
8/19	Trenching	D	Finished grooming from JBox D to area of Xfmr 15; hand trenched, installed 3 runs of preloaded HDPE & backfilled area behind Hydro from one end to the other; attempted to secure termination supplies from non-responsive vendor.		
8/20	Trenching & Boardwalk	D	Removed boardwalk at far end of Hydro; hand trenched, installed 3 runs of preloaded HDPE & backfilled from far back corner of Hydro to ocean side of boardwalk.		
8/21	Trenching & Boardwalk	D	Removed another 100' or so of boardwalk along route toward JBox E; trenched ~150', installed 3 runs preloaded HDPE & backfilled; hand trenched, installed ¾" HDPE & backfilled from Streetlight 16-L3 to Streetlight 16-L2.		
8/22	Trenching & Prep	D	Completed trench & 3 runs of preloaded HDPE to JBox E and 1 run preloaded HDPE from JBox E back to Xfmr 15; hand trenched & installed ¾" HDPE from Xfmr 16 to Streetlight 16-L1, Streetlight 16-L2 & partially to Streetlight 17-L2; completed all backfilling; pulled HDPE for final runs to end of system.		
8/23	Trenching & Prep	D	Dug from JBox E to Xfmr 17 & partial distance to Xfmr 18; installed single phase primary wire into HDPE; installed ¾" HDPE for streetlights along path; backfilled trenches; relocated Xfmrs 16, 17 & 18 from powerhouse to appropriate positions at far end of town.		
8/24	Trenching & Boardwalk	D	Finished digging trench, installing preloaded HDPE & backfilling to last Xfmr 18; began grooming around Hydro & homes near Xfms 17 & 18; removed boardwalk & installed ¾" HDPE from Xfmr 18 to Streetlight 17-L5; prepared area for planned Xfmr vault changeouts.		
8/25	New Xfmr Installation	D	During scheduled, isolated outage from 10am to noon, removed old vault & Xfmr 18 & installed new vault and new Xfmr & groomed area; trenched, installed ¾" HDPE & groomed from Streetlight 18-L1 to Streetlight 18-L2; hand dug trench, installed ¾" HDPE, backfilled & groomed from pedestal 4-1 to Streetlight 4-1-L1.		
8/26	New Xfmr Installation	D	During scheduled, isolated outage from 10am to noon, removed old vault & Xfmr 17 & installed new vault and new Xfmr & groomed area; prepared & compacted ground & installed JBox E; rebuilt boardwalks in areas of Xfmrs 18, 17 & 16.		
SPECIAL COMMENTS:					
8/18 Trenching required extra care due to electrically fused couplers on main water lines running through path of trench.					
8/19 Hand trenching slow due to heavy boulders; cut 25 pair telephone cable, reported on trouble ticket 2010180503, no reports of lost phone service.					
8/20 Hand digging revealed evidence of existing water leak near boardwalk crossing; dug down to find leak in City's 2" water line; left boardwalk open for city to repair water line.					
8/24 Assisted City with partial repair of 2" water main by installing flare fittings; some parts have not yet arrived.					
8/25 No space for extra seismic restraints on new Xfmr pad vaults with new Xfmrs mounted on them.					
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8/27	New Xfmr Installation	D	During scheduled, isolated outage from 10am to noon, removed old vault & Xfmr 16 & installed new vault and new Xfmr & groomed area; completed rebuild of boardwalk in area of Xfmr 16 except for area over leaking water main; hauled trash; restaged primary wire & HDPE.		
8/28	None	NA	Stand-by day due to excessive rain.		
8/29	Preparing for New Xfmr Installations	C	Tracked excavator back and forth to stage new Xfmrs 11, 12 & 14 from Powerhouse to appropriate locations; tracked excavator back and forth from City Dock to JBox B & JBox E locations to place large rock barriers at all 4 corners of JBoxes; inspected existing Xfmrs 11, 12 & 14 to evaluate changeout requirements; arranged to acquire used, empty 55-gallon drums and located pipe fittings and valves to drain oil from retiring Xfmrs.		
8/30	Preparing for New Xfmr Installations	C	Acquired 34 55-gallon drums for waste oil & staged them by Powerhouse; installed JBox D & last 3 runs of primary wire into the HDPE from JBox D to Xfmr 15; removed silt fence; scheduled outages to install and prepared areas for changeout of Xfmrs 11 & 12; hand dug to Streetlight located behind City Office but not shown on map; performed equipment maintenance.		
8/31	New Xfmr Installation	B & C	Installed new Xfmrs 11 & 12; scheduled outage to install and prepared areas for changeout of Xfmrs 10 & 14; prepared JBoxes A, B, C, D, E & F for termination.		
SPECIAL COMMENTS:					
8/18 Trenching required extra care due to electrically fused couplers on main water lines running through path of trench.					
8/19 Hand trenching slow due to heavy boulders; cut 25 pair telephone cable, reported on trouble ticket 2010180503, no reports of lost phone service.					
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7/21/2010 Restaging Freight



7/22/2010 Hand Trenched Area



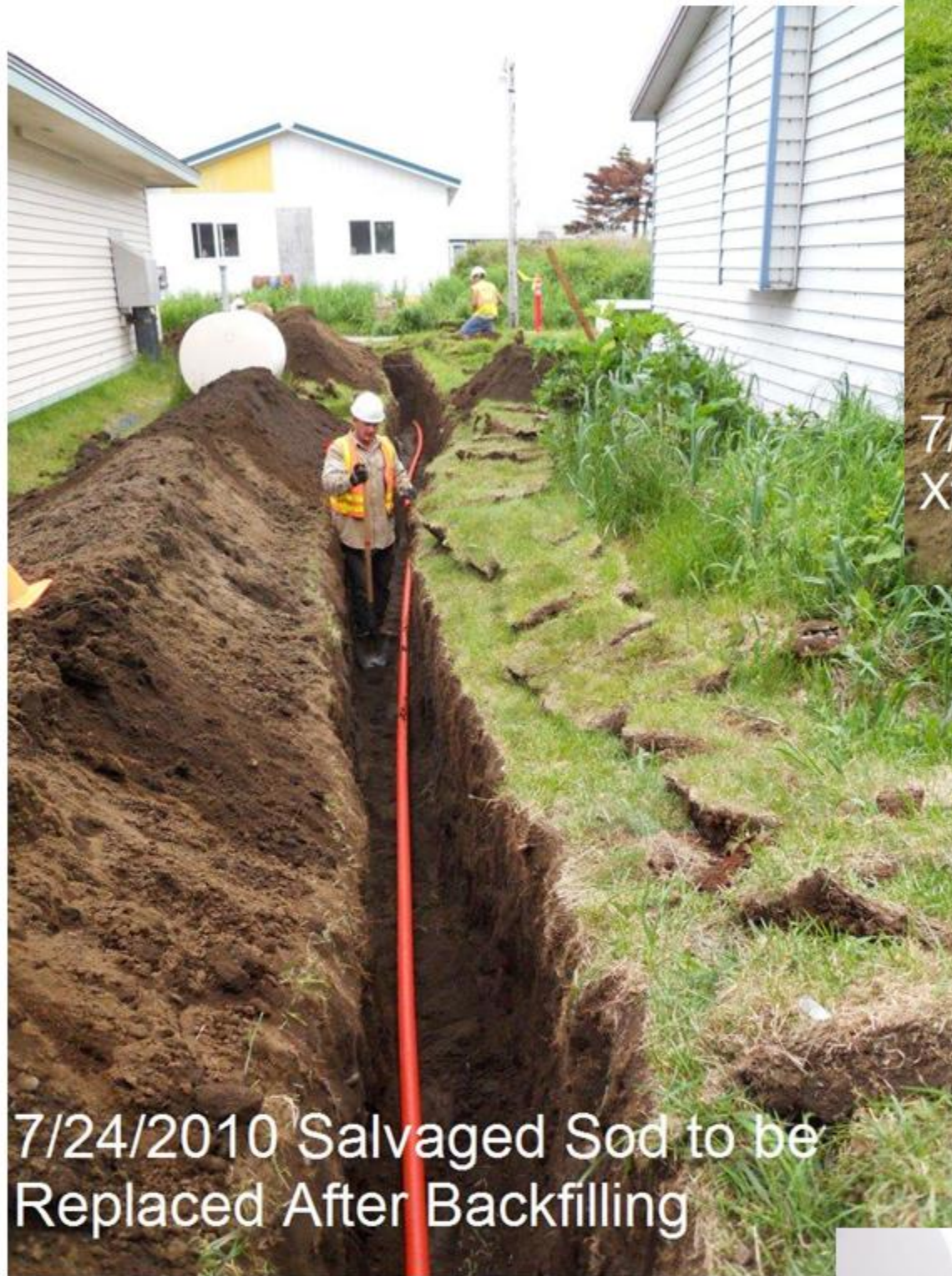
7/22/2010 Installing Primary

7/23/2010 Hand Trenching





7/23/2010 Installing Ditching Tape



7/24/2010 Salvaged Sod to be Replaced After Backfilling



7/24/2010 Sod Replaced Near Xfmr 10



7/24/2010 Trench Depth Near Xfmr 9



7/26/2010 Site Prep @ Xfmr 13



7/27/2010 Hand Trenching-JBox C to Xfmr 11

A photograph of a hand-dug trench in the ground. The trench is filled with dark brown soil and some small rocks. Two bright orange cables run diagonally across the trench. A metal pipe, possibly a gas or water line, is also visible, partially covered by the soil. The pipe has a white section and a dark, possibly rusted, section. The trench is dug into the earth, and some green grass is visible at the top left edge.

7/28/2010 Hand-dug Trench-JBox C to Xfmr 12





7/29/2010 Rebuilding Boardwalk (Slowed by Rain)

A photograph of a worker in a trench. The worker is wearing a tan shirt, dark overalls, and a high-visibility orange safety vest with reflective yellow stripes. They are holding a wooden-handled tool, possibly a shovel or probe, and standing next to several large orange pipes. The trench is filled with dark brown soil, and there is green grass on the left side. The text '7/29/2010 Trench Depth-JBox C to Xfmr 12' is overlaid at the bottom.

7/29/2010 Trench Depth-JBox C to Xfmr 12

7/30/2010 Rebuilding Boardwalk



7/30/2010 Hand Digging JBox C to New JBox F



7/31/2010 Pulling HDPE



8/2/2010 Rebuilding Boardwalk



8/2/2010 Trenching to Streetlight





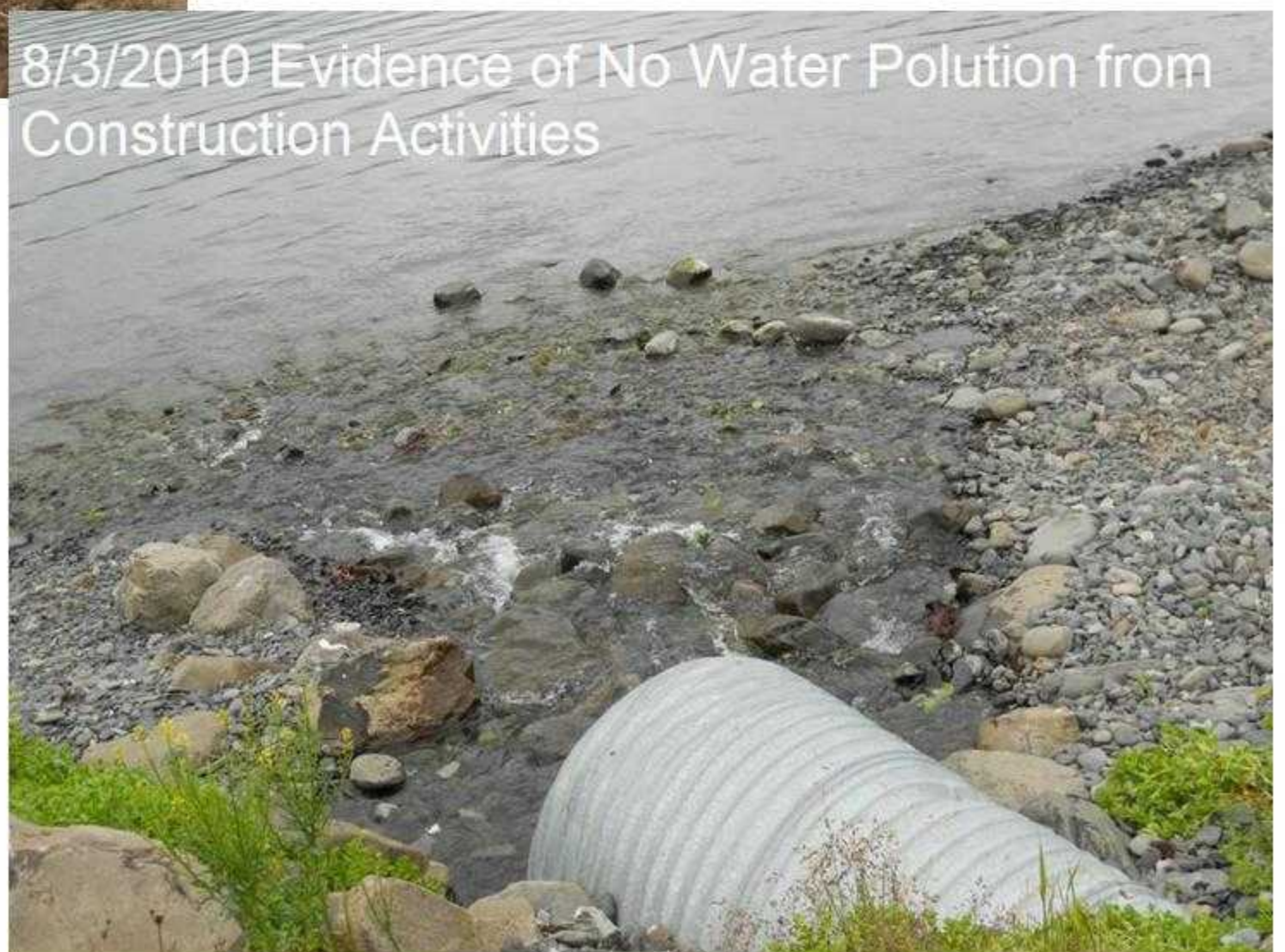
8/3/2010 Installed Silt Fence



8/3/2010 Preloaded HDPE
Installed Under Culvert



8/3/2010 Trenching Under Culvert



8/3/2010 Evidence of No Water Polution from
Construction Activities

8/4/2010 2nd Culvert Crossing





8/4/2010 Trenching Under 2nd Culvert



8/5/2010 Removing Boardwalk



8/5/2010 Existing Lines Found 12"
Below Grade in Path of Trench



8/5/2010 Backfilling Trench



8/5/2010 Trench Backfilled & Boardwalk
Replaced @ Xfmr 14



8/6/2010 Backfilling Trench to Xfmr 13

A photograph showing a rocky, grassy area, likely a coastal or riparian zone. The ground is covered with small, dark rocks and patches of green grass. A yellow caution tape is visible in the lower right corner, running diagonally across the frame. In the background, there is a concrete structure, possibly a bridge or a retaining wall, and some more vegetation. The overall scene appears to be a natural area that has been recently worked on or is under observation.

8/6/2010 Reseeded Previously Trenched Area



8/7/2010 Convoluted Trench

8/7/2010
Hand Trenching



8/8/2010 Preparing for Vault Installation for Xfmr 13



8/9/2010 Ready to Install Vault for Xfmr 13



8/9/2010 Vault Installed for Xfmr 13



8/9/2010 Xfmr 13 Installed



8/10/2010 Hand Trenching
Between Streetlight 7-1-L1 &
Pedestal 7-1





8/10/2010 Pulling HDPE to JBox E



8/11/2010 Compacting Area for Xfmr 1



8/11/2010 Xfmr 1 on Vault



8/12/2010 Protective Boulders Set & Painted at Xfmr 1



8/12/2010 Installing JBox A

8/12/2010 Completed & Groomed
Trench to Streetlight 7-2-L2



8/12/2010 Replaced Boardwalk



8/12/2010 Replaced Resident's Deck



8/13/2010 Preparing to Install JBox B



8/13/2010 JBox B Installed



8/15/2010 Installing Jbox C



8/15/2010 Newly Installed JBox F



8/16/2010 Removing Existing JBox E

8/18/2010 Trench
Over Water Mains
with Electrically
Charged Couplings





8/19/2010 Installing Preloaded HDPE Into
Trench Behind Hydroplant

8/21/2010 Removed Boardwalk Heading
Toward JBox E & Backfilled Trench Between
Streetlights 16-L2 & 16-L3





8/22/2010 Backfilled Trench with Preloaded
HDPE for JBox E

8/23/2010 Backfilling Trench At Far End of
Town





8/24/2010 Grooming Backfilled Area Beyond Hydroplant



8/24/2010 Existing Xfmr 18



8/25/2010 New Xfmr 18 & Vault



8/25/2010 Installed Xfmr 18 & Vault



8/26/2010 Existing Xfmr



8/26/2010 Installed Xfmr 17 & Vault



8/26/2010 Newly Installed JBox E

A photograph showing a newly installed green transformer box (Xfmr 16) in a field of tall grass and weeds. The box is a rectangular, green metal enclosure with a latch and a small blue label. It is situated on a patch of bare, brownish soil. In the background, there is a white house with a brown roof and a chimney. The sky is overcast and hazy.

8/27/2010 Newly Installed Xfmr 16



8/30/2010 Newly Installed JBox D



8/31/2010 Installing New Xfmr